

TOPOGRAPHIC SURVEY CONTROL POINT RECORD

STATION LONG NAME	MU29
STATION NUMBER	MU29
4 CHAR ID	MU29
COUNTRY	IRAQ
LOCATION	AL MUTHANNA
SURVEYING AGENCY	IGRS
DATE (OF DESCRIPTION)	04 JUL 05

CONTENTS	YES	NO	NO OF PAGES
FIELD COORDINATE VALUES	X		1
OFFICE COORDINATE VALUES	X		1
STATION MONUMENT & SITE DETAILS	X		1
STATION DIAGRAM	X		1
ACCESS MAP	X		1
ACCESS DESCRIPTION	X		1
APPROACH PHOTOGRAPHS	X		1
CARDINAL POINT PHOTOGRAPHS	X		2

RECORD OF VISITS

DATE OF VISIT	NAME	UNIT	REMARKS

ADDITIONAL DETAILS/ENCLOSURES

CONTENTS	NO OF PAGES

FIELD COORDINATE VALUES

STATION LONG NAME	MU29
4 CHAR ID	MU29
STATION NUMBER	MU29

THIS STATION IS NEW	YES
IDENTICAL / NEARLY IDENTICAL WITH	N/A

FIELD VALUES FROM THE RECEIVER / HAND HELD GPS – IN WGS84

LATITUDE N / S	31°18'30 N
LONGITUDE E / W	045°12'49 E
HT (M)	+13
GRID ZONE DESIGNATOR	38R
UTM / MGRS GRID	38R NV 203 637
SURVEYING AGENCY	IGRS

FIELD INPUT BY: LCPL HARRIS-HUGHES	UNIT: IGRS	DATE: 04 JUL 2005
FIELD CHECKED BY: LCPL DICKEN	UNIT: IGRS	DATE: 04 JUL 2005

OFFICE COORDINATE VALUES

WGS 84 ADJUSTED VALUES AS AT: 25 Aug 05

LATITUDE N	31° 18' 29.81935''
LONGITUDE E	045° 12' 49.44149''
SPHEROIDAL HT (M)	6.133
EGM96 GEOID MODEL HT (M)	-7.380
ORTHOMETRIC HT (M)	13.513
VERTICAL DATUM	WGS 84
GEOID MODEL USED	EGM 96
RELATIVE TO	CORS STATIONS
RELATIVE POSITION ACCURACY (M)	0.027
RELATIVE HEIGHT ACCURACY (M)	0.031
ADJUSTING AGENCY	OPUS
ADJUSTMENT DATE	25 AUG 2005

LOCAL DATUM VALUES AS AT: 25 Aug 05

SPHEROID	N/A
PROJECTION	N/A
GRID	N/A
VERTICAL DATUM	N/A
LATITUDE N / S	N/A
LONGITUDE E / W	N/A
EASTINGS (M)	N/A
NORTHINGS (M)	N/A
SPHEROIDAL HT (M)	N/A
ORTHOMETRIC HT (M)	N/A
GRID ZONE DESIGNATOR	N/A
TRANSFORMATION AGENCY	N/A
TRANSFORMATION DATE	N/A

GRAVITY VALUE: N/A	TYPE OF STN: N/A	REF: N/A
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AIR PHOTO: N/A	REF: N/A	SCALE: N/A
IMAGERY: N/A	REF: N/A	SCALE: N/A

OFFICE INPUT BY: LCPL COWARD	UNIT: IGRS	DATE: 25 AUG 2005
OFFICE CHECKED BY: LCPL DICKEN	UNIT: IGRS	DATE: 25 AUG 2005

STATION MONUMENT AND SITE DETAILS

STATION LONG NAME: MU29	
STATION NUMBER: MU29	4 CHAR ID: MU29
LOCATION: AL MUTHANNA	COUNTRY: IRAQ
STATION ADDRESS: N/A	
TEL: N/A	FAX: N/A
LAND OWNER ADDRESS: N/A	
TEL: N/A	FAX: N/A
TYPE OF MARK: HARN	
CONDITION: GOOD	
MARK SETTING: FINE MARK ON REBAR	NO OF REBARS: 14

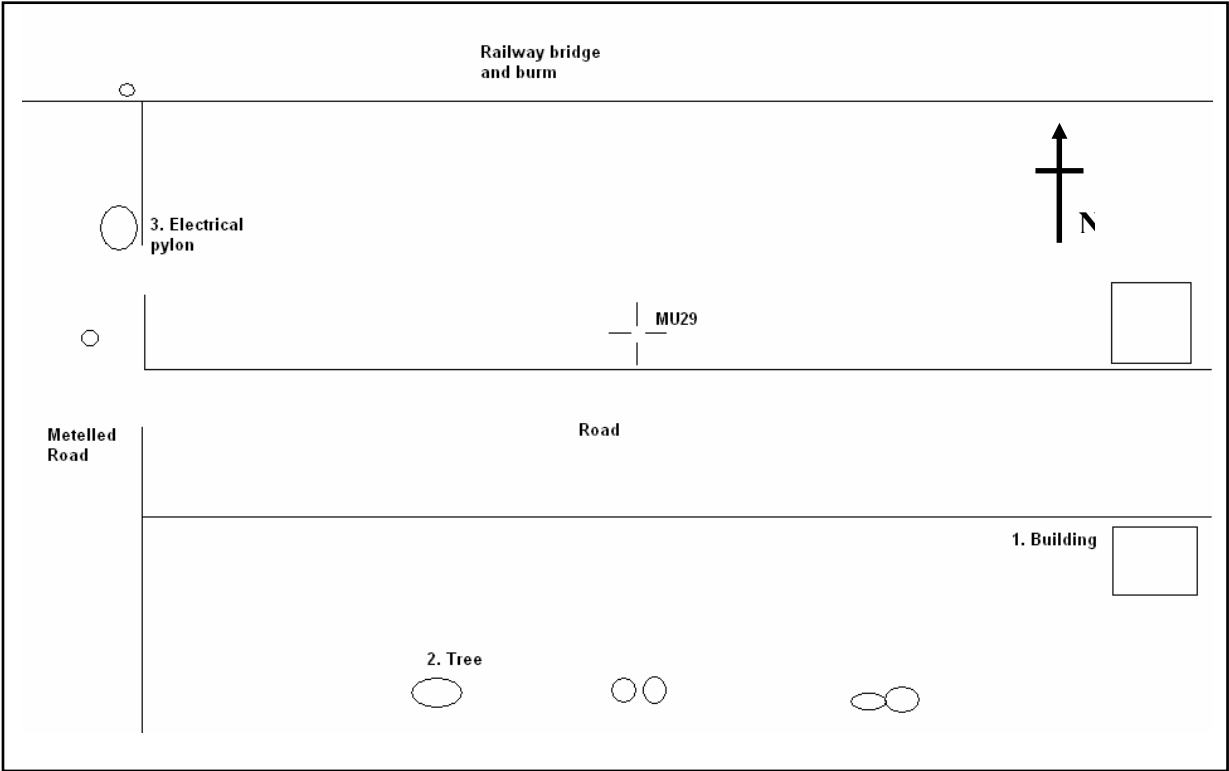
MONUMENT PHOTO / SKETCH



PREPARED BY: LCPL HARRIS-HUGHES	UNIT: IGRS	DATE: 04 JUL 2005
CHECKED BY: SGT MOSTAFA	UNIT: IGRS	DATE: 04 JUL 2005

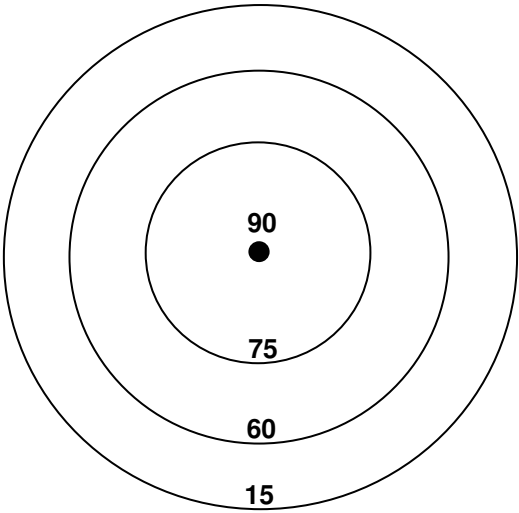
STATION DIAGRAM

STATION LONG NAME: MU29	
STATION NUMBER: MU29	4 CHAR ID: MU29



NO	DESCRIPTION	BRG/HORZ ANGLE	DISTANCE M
1	Building	322°	100
2	Tree	48°	30
3	Electrical pylon	130°	64
4			

OBSCURITY DETAILS



PREPARED BY: LCPL HARRIS-HUGHES	UNIT: IGRS	DATE: 04 JUL 2005
CHECKED BY: SGT MOSTAFA	UNIT: IGRS	DATE: 04 JUL 2005

ACCESS MAP

STATION LONG NAME: MU29

STATION NUMBER: MU29

4 CHAR ID: MU29

MAP DETAILS

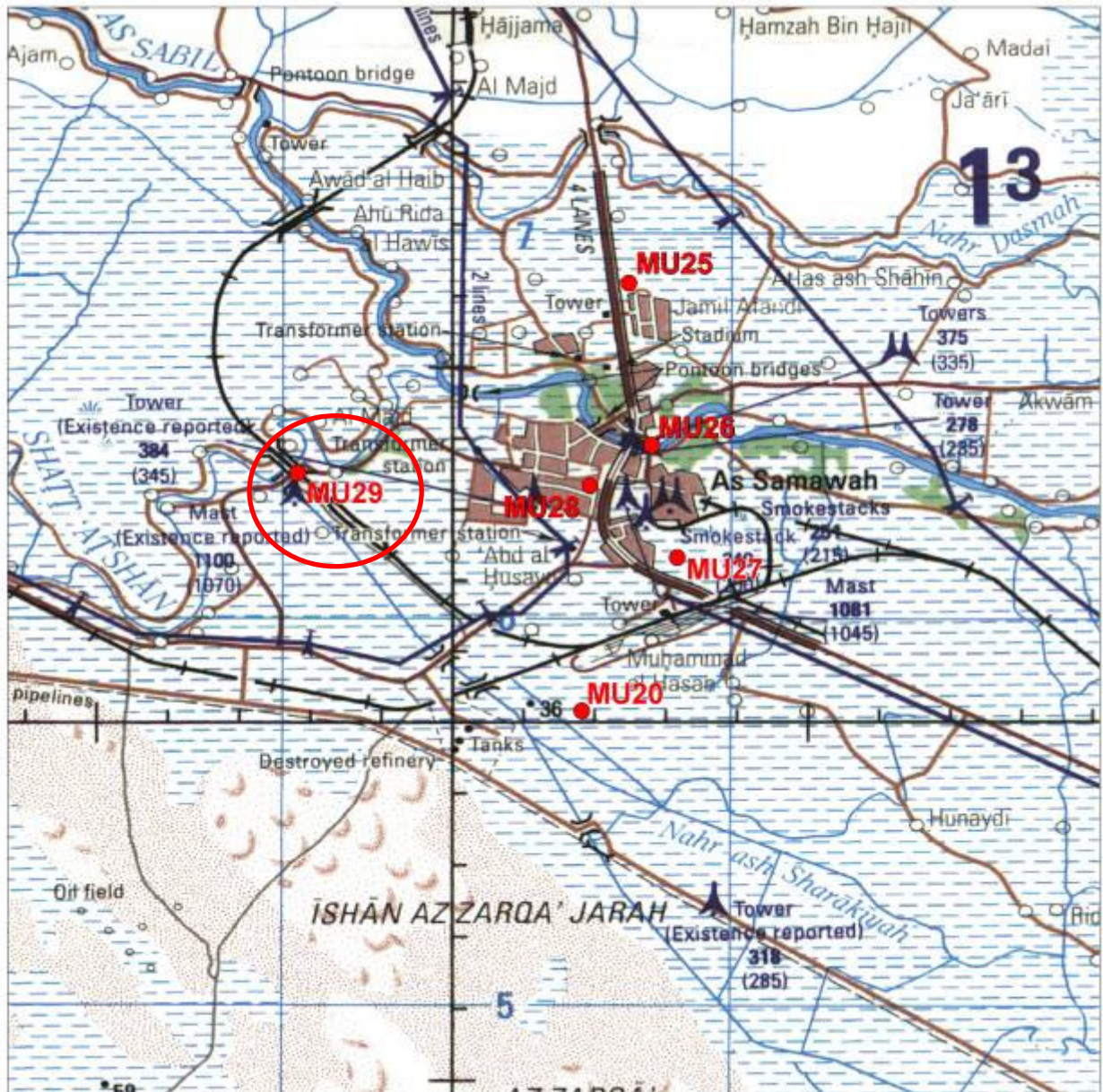
SERIES: ROUTES MAP

SHEET: AL MUTHANNA
(NORTH)

EDITION: 3

SCALE: 1:250,000

GR: 38R NV 203 637



PREPARED BY: LCPL HARRIS-HUGHES

UNIT: IGRS

DATE: 04 JUL 2005

CHECKED BY: SGT MOSTAFA

UNIT: IGRS

DATE: 04 JUL 2005

ACCESS DESCRIPTION

STATION LONG NAME: MU29		
STATION NUMBER: MU29		4 CHAR ID: MU29

MAP DETAILS	SERIES: ROUTES MAP	SHEET: AL MUTHANNA (NORTH)
EDITION: 3	SCALE: 1:250,000	GR: 38R NV 203 637

From junction of road at gr 38R NV 278 613 follow the road in an easterly direction for approx 8km to road junction at gr 38R NV 200 593.
Turn right and head in a northerly direction, following the road for approx 5km until meeting a bridge at gr 38R NV 201 637.
Cross over the bridge and the point is on the right hand side just off the road.

PREPARED BY: LCPL HARRIS-HUGHES	UNIT: IGRS	DATE: 04 JUL 2005
CHECKED BY: SGT MOSTAFA	UNIT: IGRS	DATE: 04 JUL 2005

APPROACH PHOTOGRAPHS

STATION LONG NAME: MU29	
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NEAR APPROACH FACING SOUTH



FAR APPROACH FACING SOUTH



TAKEN BY: SGT MOSTAFA	DATE TAKEN: 04 JUL 2005
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CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU29	
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NORTH



SOUTH



TAKEN BY: SGT MOSTAFA	DATE TAKEN: 04 JUL 2005
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CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU29	
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EAST



WEST



TAKEN BY: SGT MOSTAFA	DATE TAKEN: 04 JUL 2005
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